

DESIGNING AND IMPLEMENTING CLOUD SECURITY

CERTIFIED CLOUD SECURITY ENGINEER

Course Description

This course provides a comprehensive introduction to cloud computing fundamentals, focusing on the risks and threats unique to cloud platforms and infrastructure. Learners will explore how to implement a robust penetration testing methodology to assess and secure cloud environments. It emphasizes proactive incident response strategies and the use of Security Orchestration, Automation, and Response (SOAR) tools for faster, more effective cloud incident management. The course covers cloud forensic challenges, relevant laws, standards, and policies, with specific insights into AWS, Microsoft Azure, and Google Cloud Platform security frameworks.



Course Learning Outcomes

Upon successful completion of this course, you will be able to:

01

Identify cloud computing fundamentals and cloud security objectives and issues.

Analyze comprehensive penetration testing methodology for the security of an organization's cloud infrastructure.

02

03

Examine the utility of security orchestration, automation, and response (SOAR) tools in accelerating incident response.

Implement basic cloud computing concepts, such as types of cloud deployment models and cloud computing threats.

04

05

Design strategies to protect and secure their organization from any type of disruptive event.

Develop cloud security programs adhering to an organization's standards, policies, and regulations for managing security risks, preventing any legal issues.

06



Who is it for?

This course is suitable for:



Professionals in Network, Cloud, or InfoSec roles working as Analysts, Engineers, or Administrator.



Career changers who want to gain specialized knowledge in cybersecurity to transition into the field.



Working professionals who want to upskill or reskill in specific cybersecurity areas without committing to a full degree program.



Students exploring cybersecurity who want to test the waters before committing to a degree program.



Anyone with an interest in cybersecurity who wants to learn more about the field and develop relevant skills.

Course Highlights



DURATION
10 weeks



STUDY HOURS
Students need to put in about 13.5 hours a week



LIVE CLASSES
Once a week



FACULTY
Industry Experts

Why ECCU?



High Student Satisfaction (89.6%)

Our students are happy! We prioritize creating a positive learning experience that meets your needs and allows you to progress at your own pace.



Proven Employment Outcomes (100%)

Land your dream job! 100% of our graduate's report securing employment within a year of completing their courses. Our curriculum equips you with the knowledge and skills employers seek.



Achieve Your Goals (93.8%)

We support you at every step of the way. A staggering 93.8% of our students successfully achieve their goals upon course completion.



Stay Motivated (91.55%)

Stay engaged and reach your full potential! Our course fosters a high motivation index of 91.55% ensuring you stay committed to your studies and achieve success.



Why C|CSE is the Ideal Path to Becoming a Certified Cloud Security Professional?

01

DETAILED METHODOLOGICAL APPROACH AND INSTRUCTOR-LED PROGRAM

The C|CSE program provides hands-on training in creating and implementing security policies to safeguard cloud infrastructure and applications.

02

VENDOR-NEUTRAL AND VENDOR-SPECIFIC CONCEPTS

C|CSE by EC-Council is the first certification to offer a blend of vendor-neutral and vendor-specific concepts. It covers features and services of AWS, Azure, and GCP.

03

BEST PRACTICES TO SECURE CLOUD INFRASTRUCTURE

Trains for evaluating cloud storage techniques and threats, configuring cloud services, designing and implementing incident response plans, and auditing cloud computing security.

04

SOAR FOR INCIDENT RESPONSE

The course covers Security Orchestration, Automation, and Response (SOAR), equipping operations teams to analyze incidents, generate reports, and automate cloud responses.

05

GOVERNANCE, RISK MANAGEMENT, AND COMPLIANCE IN THE CLOUD

The C|CSE program equips individuals with the skills to design and implement governance frameworks, models, and regulations (ISO/IEC 27017, HIPAA, and PCI DSS).

06

FORENSIC METHODOLOGIES FOR CLOUD INFRASTRUCTURE

The program trains participants in forensic tools and techniques for investigating vulnerabilities and threats on cloud platforms like AWS, Azure, and GCP, including automation methods.

07

STANDARDS, POLICIES, AND LEGAL ISSUES IN THE CLOUD

The C|CSE program teaches individuals how to implement standards through features, services, and tools for regulation and audits of AWS, Azure, and GCP.

08

LAB-INTENSIVE CLOUD SECURITY PROGRAM

The C|CSE is the only certification course that provides hands-on training in a simulated environment. More than 85 complex labs train learners to tackle real-world, industry-level challenges for professional cloud security roles.



Course Outline



Attaining the C|CSE Certification



Number of Questions
125



Test Format
Multiple-Choice



Duration
4 hours



Availability:
**EC-Council
University Portal**

Holistic Education at **ECCU**



Acquire in-depth knowledge through ECCU's resources and platforms.



Master technical skills with hands-on expertise in ECCU's iLABS.



Enhance soft skills, such as communication and problem-solving.



Common Job Roles for C|CSE

- Software Developer/Engineer
- Systems Analyst
- DevOps Engineer
- Data Scientist/Engineer
- Web Developer
- Mobile App Developer
- Quality Assurance (QA) Engineer
- Cloud Solutions Architect
- Cybersecurity Analyst
- Database Administrator (DBA)
- Network Engineer
- Product Manager
- IT Consultant
- AI/ML Engineer

Unveil the True University Experience!



Real-time Updates



Assignments



Assessments



**Comprehensive
Resources**



**Student
Interaction**



Faculty Interaction



24x7 LMS Support



**Complete Updated
Courseware**



24x7 Online Library



Meet Our Faculty



Dr. David Moured, PhD



Yuri Diogenes, MS



Sandro Tuccinardi, JD



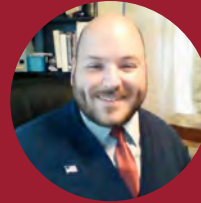
Pamela Garret, MBA



Brian McDaniel, MS



Julie Beck, MS



Chris Barnhart



Warren Mack, PhD

Meet Our Alumni



Master's of Science in Cybersecurity at EC-Council University fueled my career shift from IT general engineer to cloud security engineer, with two promotions along the way!

- Takahiro Oda
Master's of Science in Cybersecurity
Cloud infrastructure security engineer
at PayPay Corporation

I have not seen any scarcity in the cybersecurity and information security market. In fact, I went from a security analyst to a senior manager at one of India's leading general insurance companies after earning my degree from EC-Council University.

- Varad Gunjkar
Master's of Science in Cybersecurity
Senior Manager at ICICI Lombard



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